

MODIS Team Meeting Minutes

Minutes of the MODIS Team Meeting held on Tuesday January 11, 1994.

Action Items:

70. Evaluate the thermal design of the Schaeffer Magnetics' motor/encoder. Assigned to Daelemans 8/31/93. Due 10/15/93 CLOSED 1/4/94
73. Complete the MODIS brochure and released for printing. Assigned to Bauernschub 10/18/93. Due 11/15/93.
74. Prepare and submit a Configuration Change Request which revises the definition and impact of levels of software criticality for the MODIS Software Management Requirements Document. Assigned to Anderson 10/26/93. Due 12/1/93
75. Determine if the four electronic module boxes can be individually thermal tested in air, or must the thermal testing be done in a vacuum. Assigned to Silva 10/26/93. Due 11/9/93
79. Consider advisability of bringing bad Readout ICs to GSFC for electrical tests or destructive physical analysis. Assigned to Bob Martineau 11/23/93. Due 12/7/93 CLOSED 1/4/94
82. Work with the MODIS team to obtain a consensus on a revised MODIS crosstalk specification and provide inputs for a Configuration Change Request. Assigned to Ed Knight 12/14/93. Due 1/11/94
83. Answer the following questions about instrument commands.
- a) Are there any commands or command sequences which can damage MODIS?
 - b) How does SBRC validate command macros before use on the instrument?

Assigned to Roberto 12/21/93. Due 1/14/94

The following items were distributed:

- 1) Weekly Status Report #121
- 2) Minutes of the last team meeting

Attendees:

✓ Dick Weber	✓ Bruce Guenther	June Tveekrem
✓ John Bauernschub	✓ George Daelemans	✓ Bob Martineau
Rosemary Vail	John Barker	✓ Bob Silva
✓ Lisa Shears	Joann Harnden	Ken Brown 925
✓ Mike Roberto	✓ Patricia Weir	✓ Robert Kiwak
✓ Nelson Ferragut	✓ Mitch Davis	✓ Harvey Safren
✓ Gene Waluschka	Jack Ellis	✓ Ed Knight
Kate Forrest	✓ Ken Anderson	Harry Montgomery
Bill Barnes	✓ Rick Sabatino	Marvin Maxwell
✓ Les Thompson	Cherie Congedo	Bill Mocarsky

MODIS Team Meeting and Other Topics 11 January 94

General

The CDR starts next Tuesday at the Goleta Holiday Inn at 8 am and continues for three days. The software CDR starts at 8 am on Friday, January 21st.

The Failure Modes and Effects Analysis (FMEA) comments should be completed as much as possible this week, before we go to the CDR. Comments should be sent E-mail to Bob Silva. Persons assigned to respond include Nelson Ferragut, Mitch Davis, Bob Martineau, Gene Waluschka, and Mike Roberto.

If you want your CDR package of 3 or 4 books of view graphs mailed to SBRC, please get these books to Stephanie Gorman by Wednesday noon.

Travel can be done with government fare to and from Los Angeles and commercial fare between Los Angeles and Santa Barbara. The round trip commercial air fare between Los Angeles and Santa Barbara is about \$200. If driving, car pooling is recommended.

There will be a video teleconference on the MODIS Systems Analysis Program on Tuesday, January 25th. The telecon will be on the first floor in building 23. The room was used for a QMR and delta PDRs for mechanisms and calibration last year.

MODIS Science Requirements on Change in Pointing Knowledge Error

A meeting was held on January 10th with PM spacecraft, AM spacecraft, and MODIS personnel to go over MODIS science pointing stability requirements. The PM spacecraft will look into providing for the change in pointing knowledge error to be equal or less than 20 arc seconds per hour at the instrument mounting feet. Preliminary indications are that this is doable. An attempt will be made to formalize this as a requirement in the UIID for AM and PM platforms. Twenty arc seconds corresponds to about 68 meters on the ground.

Hazardous Commands

A conversation was held with John Mehrten on January 10 to go over hazardous commands for MODIS. There are no hazardous commands. The only commands that would come close to being hazardous would be the fail-safe opening of the doors. Fail-safe door opening requires three commands in the correct order.

Orbit Trip Proposed Agenda

Bob Martineau sent a letter to Betty Newkirk of Orbit Semiconductor on January 10th concerning the request by the MODIS program office for a source inspection of Orbit Semiconductor in regard to the readout chips for MODIS. Bob included a list of attendees and a proposed agenda. This information was faxed to Oscar Weinstein and Joe Banuck on January 11th. Bob consolidated comments from the team into a concise proposed agenda including a general discussion of MODIS readout job requirements, technical requirements for SBRC/MODIS program, quality assurance requirements, and a tour of facilities. Bob also attached the individual comments from Les Thompson, Bob Silva, and Mitch Davis.

Electronics

Mitch Davis mentioned that all the signed off schematics will be available at the CDR. It will be possible to trace the signal from the detectors to the digital words leaving MODIS.

The EEPROMS are still the best prospects for the MODIS memory. GSFC may provide SBRC with a specification for procuring these chips.

SBRC is looking into adding 60 reset lines to the CLAM so each PC detector offset bias can be reset.

Mechanics

Nelson Ferragut mentioned that there may be a problem with the beryllium mounting brackets which interface kinematic mounts KM1 and KM2 with the MODIS mainframe. Analyses for these brackets should take into account shear out which may occur before tear out. The MODIS mounting bracket for KM3 is already a titanium bracket.

Mike Roberto January 11, 1994